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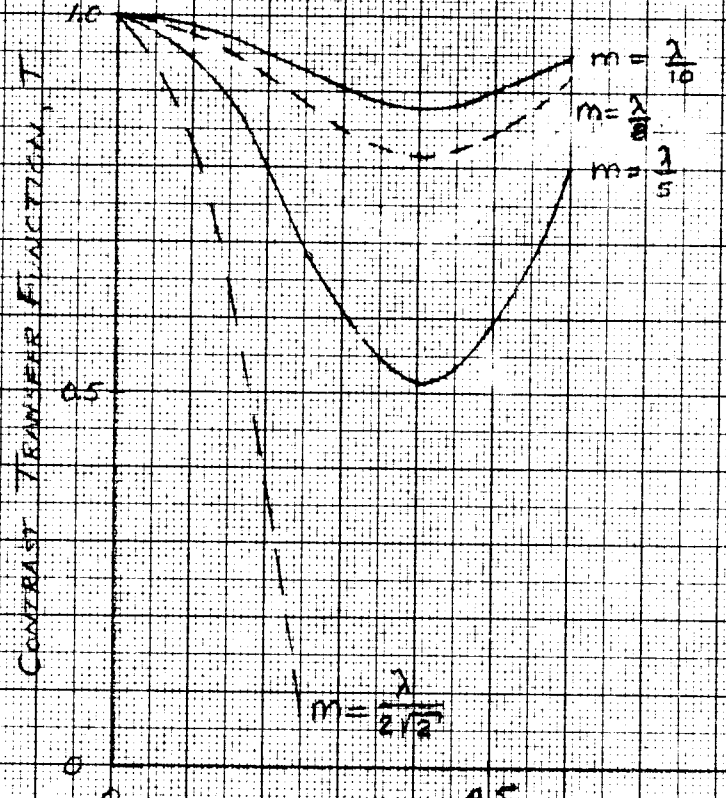
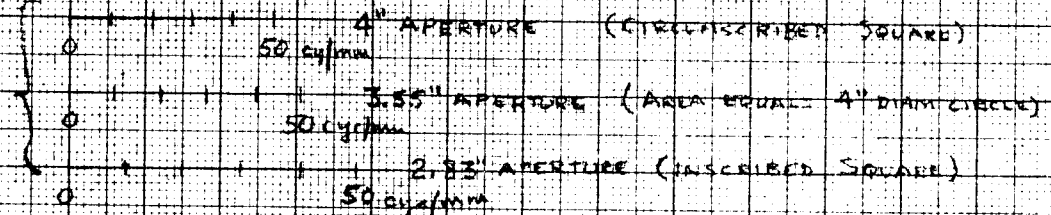
CONTRAST REDUCTION CAUSED BY NON-FLAT WAVEFRONT FOR STRAIGHT COSINUSOIDAL RIPPLES OF PEAK-TO-PEAK HEIGHT m
(1.25 COSINE PERIODS ASSUMED IN APERTURE; WAVES ALIGNED WITH RECTANGULAR APERTURE)

$$T = 1 - (\pi^2 m^2)(\sin^2 1.25\pi\omega)\left[1 - \frac{\sin 2.5\pi(1+\omega)}{2.5\pi(1+\omega)}\right]$$

$$\omega = \frac{f D \nu}{a}$$

f = focal length
D = aperture dimension
λ = wavelength of light
ν = spatial frequency





M.D.R.
30 MAY 61

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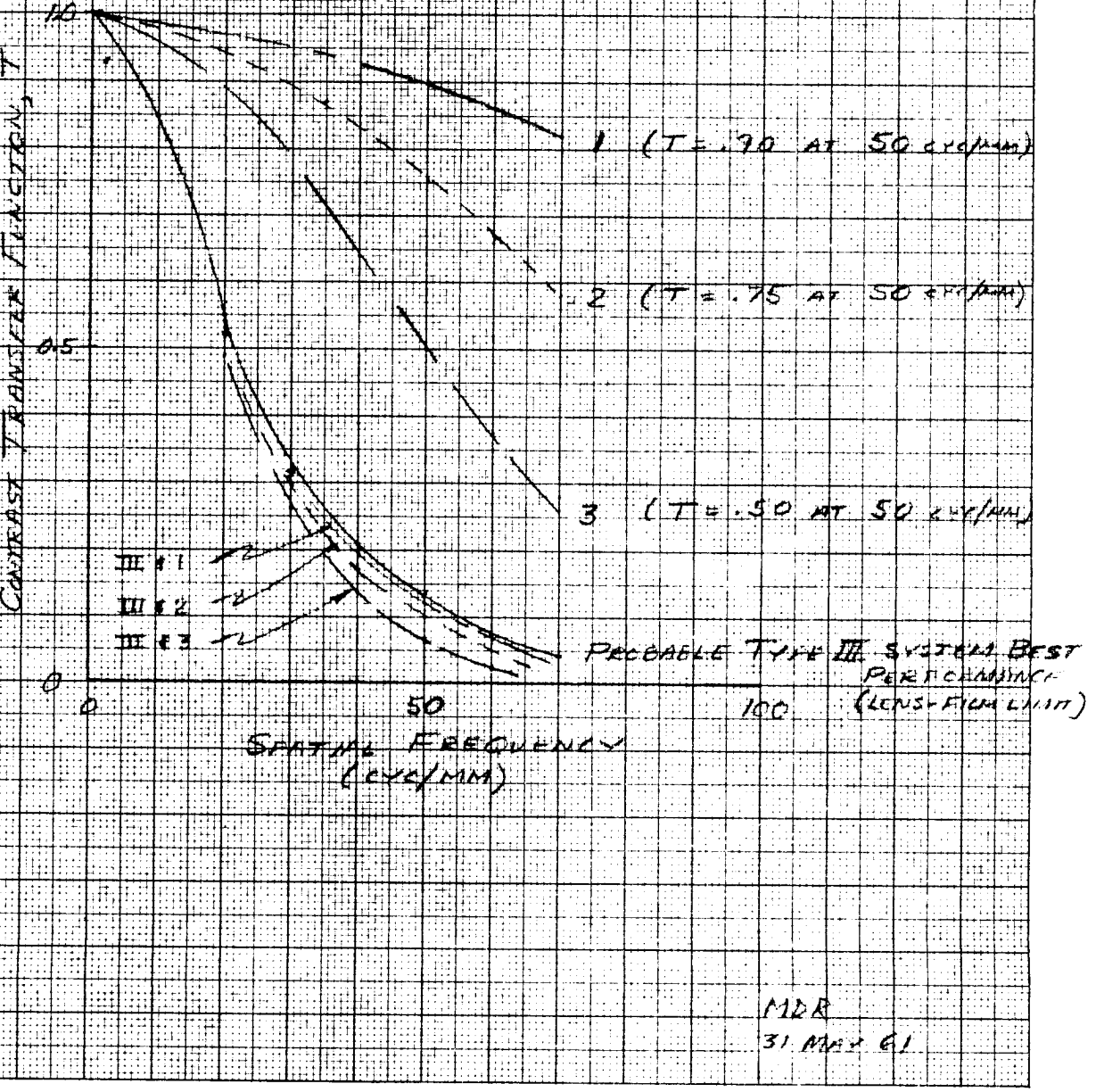
ESTIMATED TRANSFER CURVE FOR OPERATIONAL TYPE III SYSTEM

&

CONTRAST LOSS DUE TO THREE OTHER ASSUMED TRANSFER FUNCTIONS



MDR
31 May 61

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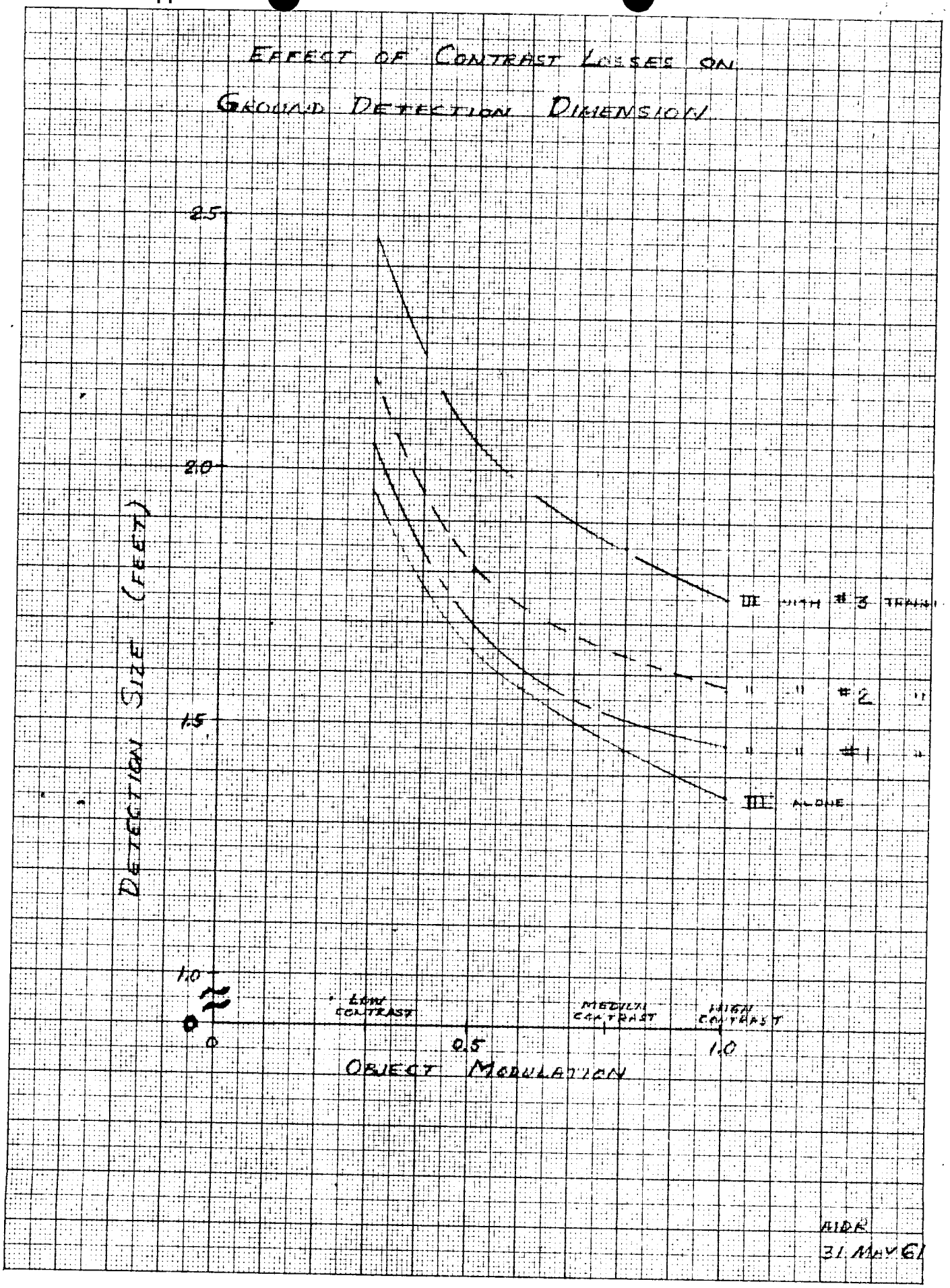

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